

### **Abstract of the Disclosure**

An ergonomically equipped and interference signal-reducing position measurement probe for mutual alignment of bodies has a speech input device and/or a speech output device. The probe is wirelessly linked to an external control or a higher-level supervisory computer either by an infrared interface or a radio link which operates at an extremely high frequency. Error-reducing measured value acquisition is effected by averaging. The average represents several individual measured value. In the acquisition of the individual measured values, it is watched that the times of measured value recording and the time peaks of a solid-borne sound oscillation on the measurement object are essentially asynchronous to one another.

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